

## Case 417 : Narrative

Case Vehicle (A): 1998 Honda	Vehicle (B): 2000 Buick
Type: Accord LX, 4-door sedan	Type: Century Limited, 4-door sedan
Driver: 80-year-old male	Driver: 76-year-old female
CDC: 12-FREW-2	CDC: 12-FREW-2

### SITUATION

[1](#) [2](#) [3](#) On a clear dark night, case vehicle (A) was stopped facing north in the northbound lane of a two-lane north-south road that intersects the east-west road on the south side in a T-type intersection with a stop sign for northbound traffic. The asphalt road surface was dry and the speed limit was 55 mph (89 kph). [4](#) [5](#) Vehicle (B) was traveling west at an EDR-recorded speed of 55 mph (89 kph) in the westbound lane of a two-lane east-west road, in a rural area. [6](#) As vehicle (B) approached the intersection, [7](#) [8](#) the driver of case vehicle (A) began to make a right turn to travel east, but made too wide of a turn and case vehicle (A) entered the westbound lane instead of the eastbound lane. The driver of vehicle (B) applied the brakes and may have steered to the left, but was unable to avoid a collision, and the right front of case vehicle (A) struck the right front of vehicle (B). Both vehicles were towed from the scene.

The police-accident report (PAR) indicates C-level injuries for the driver of case vehicle (A) but he did not seek treatment. The PAR indicates B-level injuries for the right-front and right-rear passengers of case vehicle (A), and both were transported to a local hospital where they were treated and released. The PAR indicates B-level injuries for the driver and right-front passenger of vehicle (B) and both were transported to a local hospital. The driver was treated and released but the passenger was transferred to a trauma center by helicopter where he was hospitalized for six days.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[9](#) Damage to the front of case vehicle (A) was moderate. [10](#) Direct damage began at the right-front bumper corner and extended 43-cm across the front, resulting in 29-percent vehicle overlap (VOL%). The maximum frontal crush was 48 cm and it occurred to the right of the center section of the front bumper.

[11](#) Damage to the front of vehicle (B) was moderate. [12](#) Direct damage began at the right-front bumper corner and extended 48-cm across the front of the vehicle, resulting in 36-percent vehicle overlap (VOL%). The maximum frontal crush was 46 cm and it occurred at the right-front bumper corner. The right section of the front bumper was crushed and the hood was crushed and pushed down and to the rear on the right side. The right fender was crushed rearward into the right-front wheel and the right wheelbase was reduced by 10 cm. [13](#) The left fender was buckled but there was no change in the left wheelbase.

[14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) Using the WinSMASH crash-reconstruction program and crush profiles for both vehicles, the following impact severities were estimated:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	32 (20)	-32 (-20)	6 (4)
Vehicle (B)	delta V	31 (19)	-30 (-19)	-5 (-3)

Vehicle (B) was equipped with an Event Data Recorder (EDR) that recorded an adjusted-algorithm longitudinal velocity change of -26.5 mph at 110 ms into the event. The EDR data also indicate that the brakes were applied two seconds before the event, which slowed the vehicle from 55 mph to 46 mph one second prior to the frontal impact.

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[23](#) In the front, the right and center sections of the bumper were crushed rearward, the bumper cover was separated from its attachment, [24](#) and the bumper reinforcement bar was pushed rearward into the grille. [25](#) The right headlight assembly was crushed, the grille was damaged, [26](#) and the left headlight assembly was dislodged but the headlamp glass was not broken. [27](#) The right side of the hood was crushed rearward and pushed down and the left side of the hood was buckled up. [28](#) [29](#) The damaged hood latch was jammed and both hood hinges were bent, allowing the rear edge of the hood to elevate, but it did not contact the windshield. [30](#) Small cracks caused by cowl deformation radiated from the lower-right corner of the windshield. [31](#) There was no damage to the center and right sections of the windshield.

[32](#) [33](#) On the right side, the fender was crushed rearward into the engine compartment and right-front wheel, which was pushed rearward causing the right wheelbase to be reduced by 8 cm. [34](#) The right-side doors were undamaged and operational, the right-side glazing was intact, and there was no damage to the right A-, B- or C-pillars. [35](#) There was no damage to the right-rear wheel and [36](#) there was no deformation of the right quarter panel.

[37](#) On the left side, the fender was buckled but there was no damage to the left A-, B- or C-pillars. [38](#) Both left-side doors were undamaged and operational and there was no damage to the driver-door window, [39](#) but the rescue crew broke the left-rear window. [40](#) Both left-side wheels were undamaged, there was no change in the left wheelbase, and [41](#) there was no damage to the left quarter panel.

[42](#) There was no damage to the rear of case vehicle (A).

### Interior

[43](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags, which deployed during the frontal impact. [44](#) There was no damage to the steering-wheel airbag and there were no contact marks on the airbag fabric. [45](#) There was no damage to the steering-wheel assembly or to the airbag cover [46](#) and there was no rotation of the steering column. [47](#) In the driver seating area, there was no damage to the roof or to the windshield header. There was no damage to the upper or mid portions of the instrument panel or [48](#) to the driver knee bolster, but there were scuffmarks on the [49](#) left section of the bolster cover and [50](#) the lower portion of the steering-column cover was cracked. [51](#) There was no damage to the floor, to the foot controls, or to the interior panel of the driver door.

[52](#) [53](#) [54](#) There was no damage in the center-front area.

[55](#) In the right-front seating area, there was no damage to the roof, to the roof header, or to the right A-pillar. [56](#) There was no damage to the dash-mounted airbag or to the [57](#) airbag module cover. [58](#) The glove-box door was open, the knee bolster below [59](#) the glove box was cracked, and the [60](#) [61](#) plastic louvers on the vent outlet to the right of the glove box were damaged. [62](#) [63](#) There was no damage to the floor or to the interior of the right-front door, [64](#) but there was a scuffmark on the rear section of the door below the armrest.

[65](#) [66](#) There was no damage in the rear seating area and there were no intrusions.

## OCCUPANT KINEMATICS AND INJURIES

[67](#) The 188-cm, 86-kg (6-ft 2-in, 190-lb) 80-year-old male driver was using the three-point belt and the steering-wheel airbag deployed. [68](#) [69](#) Belt use is indicated by loading marks on the D-ring and the shoulder-belt webbing. [70](#) The shoulder-belt anchor point on the B-pillar was adjusted to the highest position and the seat was adjusted to a rearward position. The driver reportedly was wearing eyeglasses, which were bent.

During the frontal impact, the elderly driver moved forward relative to the vehicle interior into the belt restraints, airbag, knee bolster, and steering column. He sustained a bloody nose, [44](#) probably from contact by the deploying airbag. He sustained a contusion to the right knee, probably from contact with the steering column, [50](#) as evidenced by damage to the cover over the lower portion of the column.

[71](#) The 175-cm, 79-kg (5-ft 9-in, 175-lb) 74-year-old male right-front passenger was using the three-point belt and the dash-mounted airbag deployed. [72](#) [73](#) Belt use is indicated by belt loading marks on the D-ring and continuous loop. [74](#) The shoulder-belt anchor point on the B-pillar was adjusted to the highest position and the seat was adjusted to a mid-to forward position to provide legroom for the right-rear passenger.

During the frontal impact, the elderly right-front passenger moved forward relative to the vehicle interior into the belt restraints, airbag, and knee bolster. He sustained a cervical strain, probably from non-contact impact forces. He sustained a contusion to the left side of the chest, [72](#) [73](#) probably from loading by the shoulder belt. He sustained a contusion to the right thumb, probably from contact with the vent outlet, [60](#) [61](#) as evidenced by damage to the plastic louvers on the vent plate. He sustained an abrasion to the right knee from contact with the knee bolster, [58](#) [59](#) as evidenced by damage to the bolster below the glove box.

[75](#) The 183-cm, 75-kg (6-ft, 165-lb) 25-year-old male right-rear passenger was using the three-point belt. During the frontal impact, he moved forward relative to the vehicle interior into the belt restraints. He sustained a concussion from an unknown source. He sustained an abrasion and a contusion to the right side of the chest, and a fracture to the sternum, probably from loading by the shoulder belt.

The following tables [76](#) [77](#) [78](#) and attached drawings summarize the injuries for the restrained occupants.

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Occupant: Driver	Age: 80 years	Gender: Male		
Restraints: 3-point belt; steering-wheel airbag	Stature: 188 cm (6 ft 2 in)	Mass: 86 kg (190 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Bloody nose	1	—	Airbag	—
Contusion, right knee	1	—	Steering column cover	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	2	—	—	—

Occupant: Right front	Age: 74 years	Gender: Male		
Restraints: 3-point belt; dash-mounted airbag	Stature: 175 cm (5 ft 9 in)	Mass: 79 kg (175 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Cervical strain	1	—	Impact forces	—
Contusion, left side of chest	1	—	Shoulder belt	—
Contusion, right thumb	1	—	Vent outlet	—
Abrasion, right knee	1	Knee bolster below glove box	—	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	2	—	—	—

Occupant: Right rear	Age: 25 years	Gender: Male		
Restraints: 3-point belt	Stature: 183 cm (6 ft)	Mass: 75 kg (165 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Concussion	2	Unknown	—	—
			Shoulder	

Abrasion and contusion, right side of chest	1	—	belt	—
Fracture, sternum	2	—	Shoulder belt	—
Maximum A.I.S. Level	2	—	—	—
Injury Severity Score	9	—	—	—

CASE NO.: 417

CASE VEHICLE: 1998 Honda

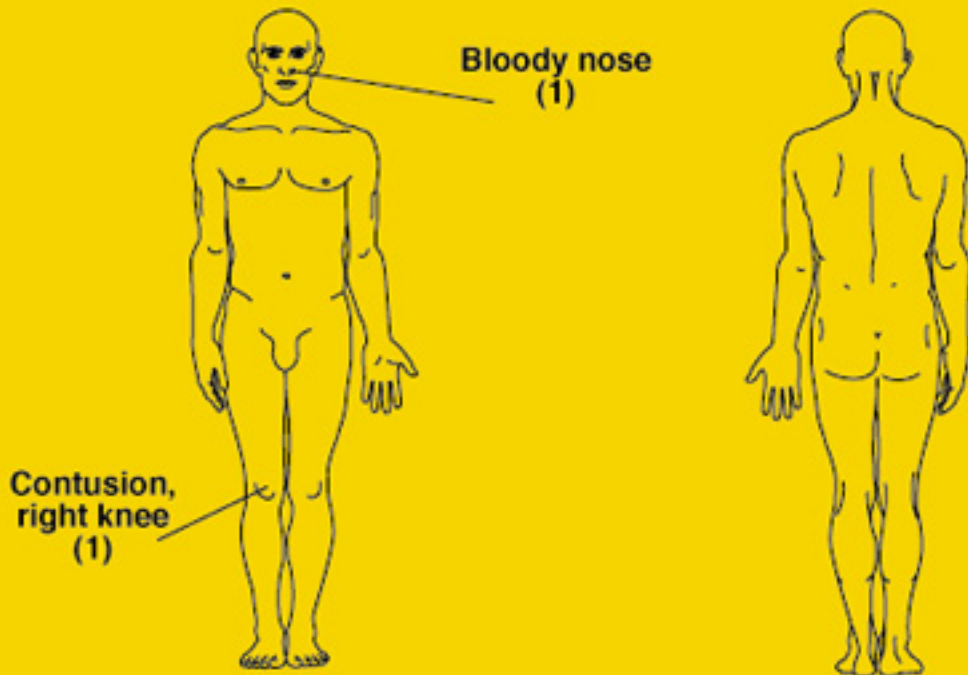
TYPE: Accord LX, 4-door sedan

OCCUPANT: (Driver) 80-year-old male

STATURE: 188 cm (6 ft, 2 in)    MASS: 86 kg (190 lb)

RESTRAINTS: 3-point belt, steering-wheel airbag

SEVERITY:    MAIS - 1                    ISS - 2



CASE NO.: 417

CASE VEHICLE: 1998 Honda

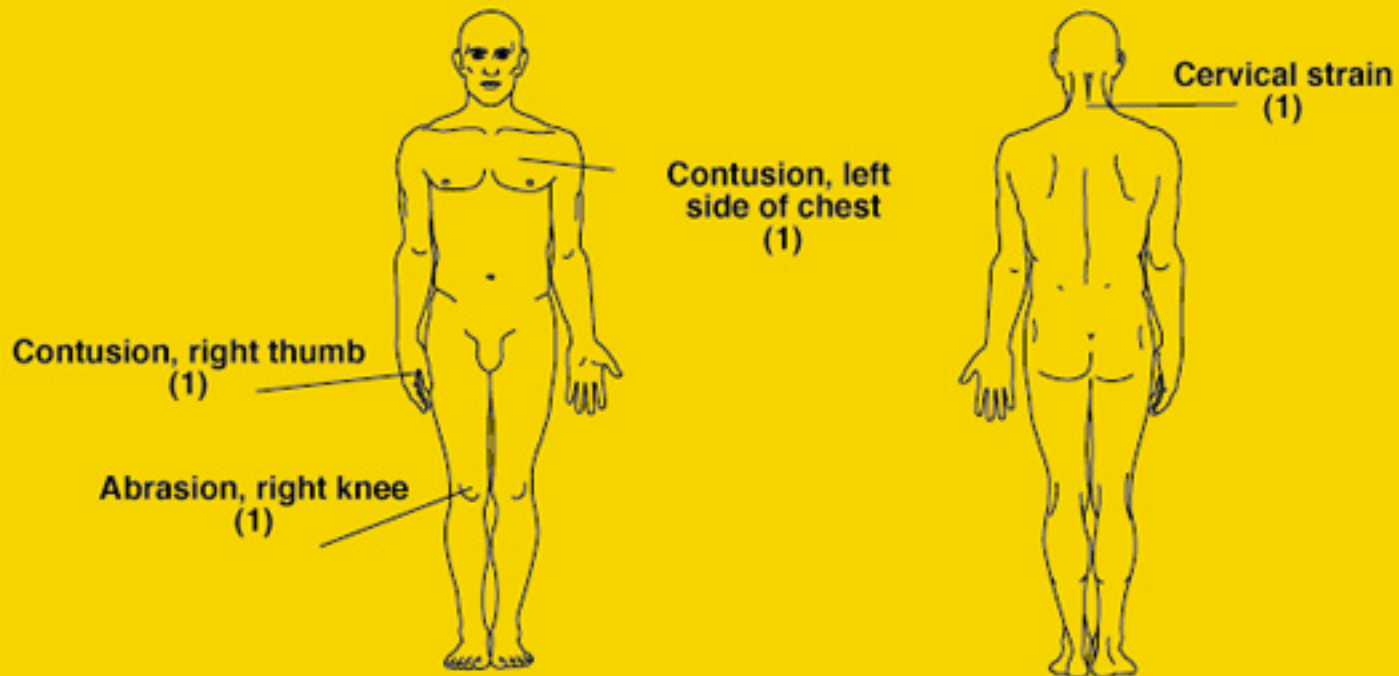
TYPE: Accord LX, 4-door sedan

OCCUPANT: (Right front) 74-year-old male

STATURE: 175 cm (5 ft, 9 in)    MASS: 79 kg (175 lb)

RESTRAINTS: 3-point belt, dash-mounted airbag

SEVERITY:    MAIS - 1                    ISS - 2



CASE NO.: 417

CASE VEHICLE: 1998 Honda

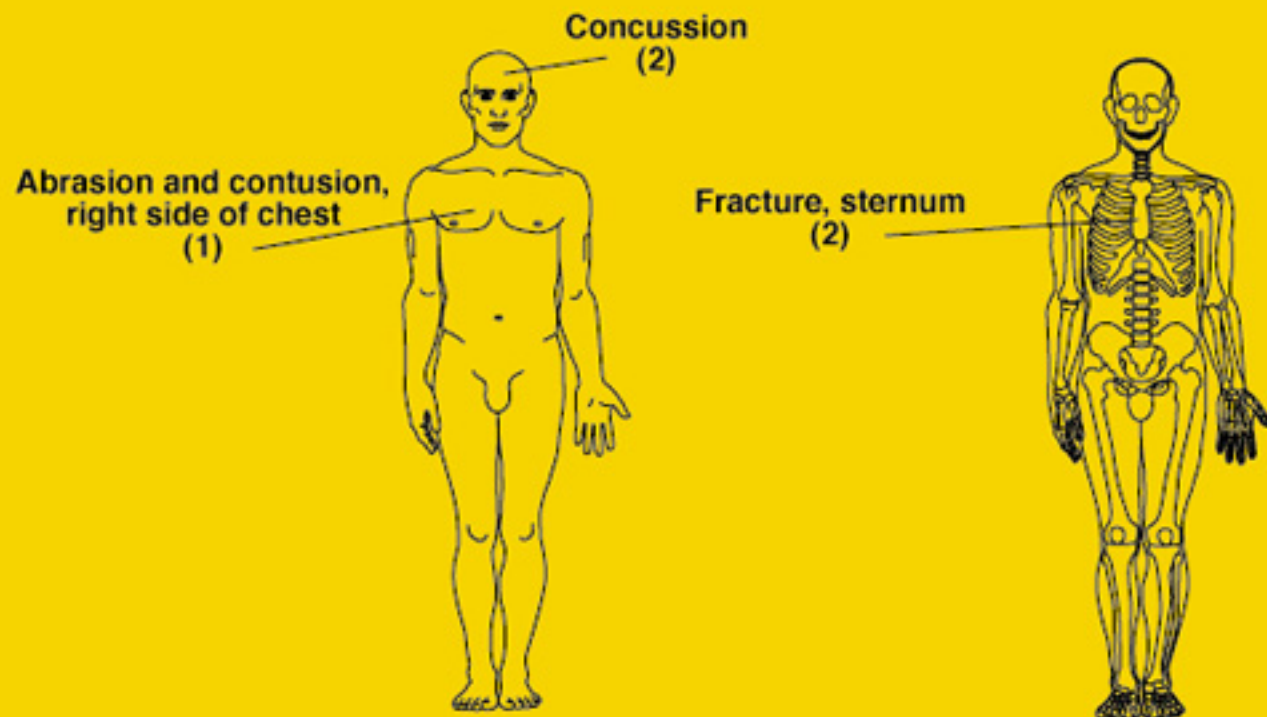
TYPE: Accord LX, 4-door sedan

OCCUPANT: (Right rear) 25-year-old male

STATURE: 183 cm (6 ft)    MASS: 75 kg (165 lb)

RESTRAINTS: 3-point belt

SEVERITY:    MAIS - 2            ISS - 9





Case No.: 417

Case Veh. (A): 1998 Honda

Type: Accord LX, 4-door sedan

Driver: 80-year-old male

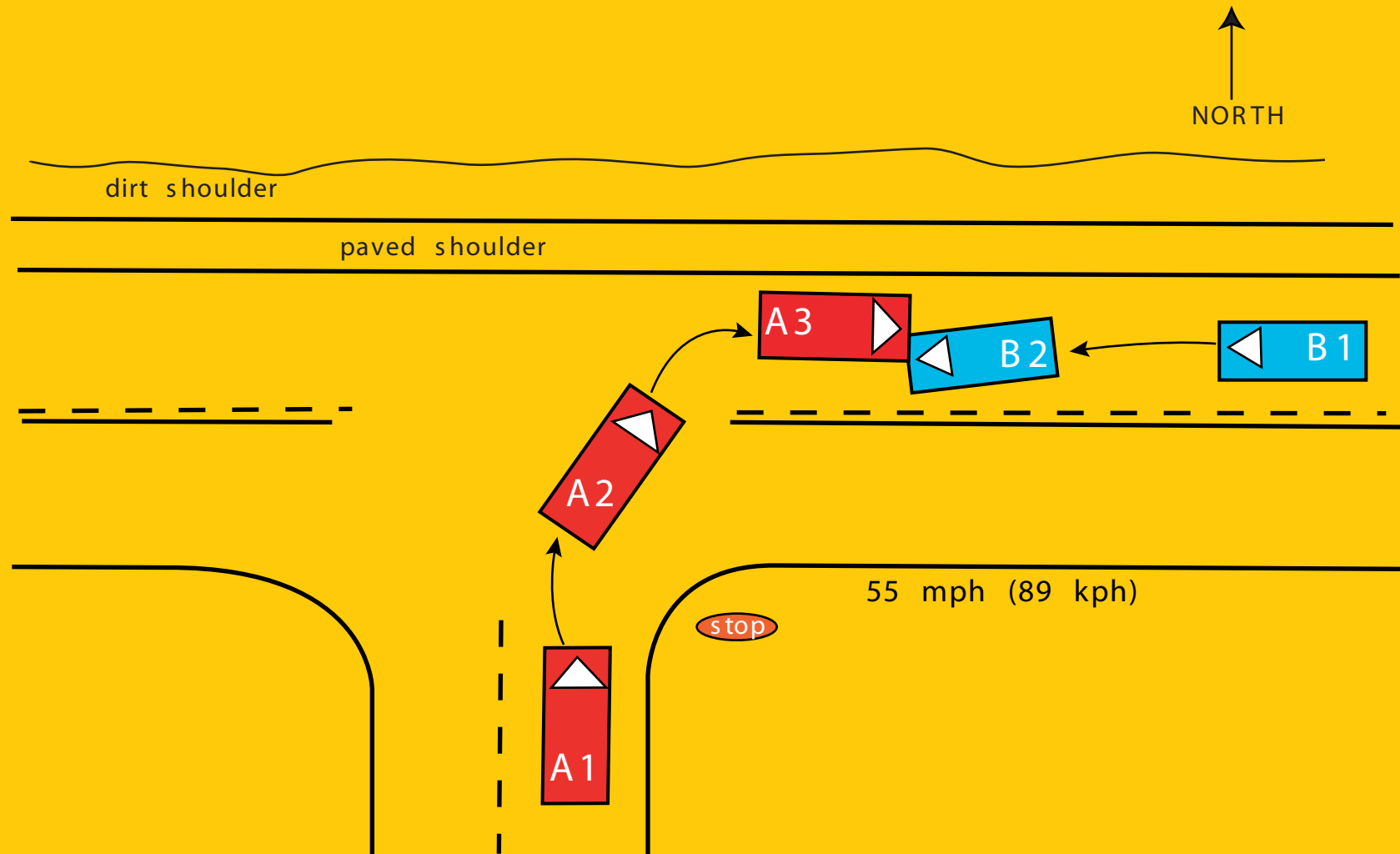
Vehicle (B): 2000 Buick Century Limited, 4-door sedan

Weather: Clear

Road Surface: Dry

Road Construction: Asphalt

Light Condition: Dark/lighted



# Vehicle Report

Click on Section Name to jump directly to that Section —

- [General Conditions](#)
- [Other Vehicle](#)
- [Case Vehicle General](#)
- [Case Vehicle Damage Description](#)
- [Crash Severity](#)
- [Case Vehicle Tires & Rims](#)
- [Case Vehicle Fuel, Tank, Fire](#)
- [Case Vehicle Exterior](#)
- [Case Vehicle Steering Column/Rim](#)
- [Case Vehicle Intrusion](#)
- [Case Vehicle Airbag\(s\)](#)
- [Case Vehicle Interior](#)
- [Case Vehicle Seats](#)

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## General Conditions

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	2	Rural	<a href="#">more</a>
V207 — Limited Access Highway	0	No	<a href="#">more</a>
V208 — Road Total Lanes	2	2 lanes	<a href="#">more</a>
V209 — Intersecting Road Total Lanes	2	2 lanes	<a href="#">more</a>
V210 — Road Surface Type	1	Asphalt	<a href="#">more</a>
V211 — Road Defects	0	No	<a href="#">more</a>
V212 — Construction Zone	0	No	<a href="#">more</a>
V213 — Road Alignment Vertical Plane	3	Slope (2%)	<a href="#">more</a>
V214 — Road Alignment Horizontal Plane	1	Straight	<a href="#">more</a>
V215 — Surface Covering	10	Dry	<a href="#">more</a>
V216 — Visibility Limitation	0	None	<a href="#">more</a>
V217 — Visibility Obstruction	0	None	<a href="#">more</a>
V218 — Speed Limit	6	86-90 km/h .. 55 mph	<a href="#">more</a>
V219 — Precipitation Type	0	None	<a href="#">more</a>
V220 — Precipitation Rate	8	Not applicable	<a href="#">more</a>
V221 — Temperature	9	Unknown	<a href="#">more</a>

V222 — Crosswind	9	Unknown	<a href="#">more</a>
V223 — Light Conditions	4	Dark, lighted	<a href="#">more</a>
V224 — Mechanical Malfunction Mention	0	No	<a href="#">more</a>
V225 — Case Vehicle and Object	0	No	<a href="#">more</a>
V226 — Case Vehicle Rollover	0	No	<a href="#">more</a>
V227 — Case Vehicle Ran Off Roadway	0	No	<a href="#">more</a>
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	<a href="#">more</a>
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	<a href="#">more</a>
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	<a href="#">more</a>
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	<a href="#">more</a>
V232 — Any Fire in Crash	0	No	<a href="#">more</a>
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	<a href="#">more</a>
V234 — Driver Alcohol Involvement	0	Had not been drinking	<a href="#">more</a>
V235 — Driver Alcohol BAC	80	Not tested	<a href="#">more</a>
V236 — Driver Impairment Mention	0	No	<a href="#">more</a>
V237 — Driven/Towed From Scene	2	Towed Due to Damage	<a href="#">more</a>

## Other Vehicle

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	2G4WY55J5Y11	—	—
V302 — Other Vehicle Manufacturer/Body Code	11128	—	—
V303 — Other Vehicle Manufacturer	111	Buick	<a href="#">more</a>
V304 — Other Vehicle Body Code	28	Intermediate 105-109.9 in. wb.	<a href="#">more</a>
V305 — Other Vehicle Make/Model	0422	Century	<a href="#">more</a>
V306 — Other Vehicle Model Year	2000	—	—
V307 — Other Vehicle Mass	001528 kg	—	—
V308 — Other Vehicle Number	1	Vehicle #1	<a href="#">more</a>
V309 — Other Vehicle Number of Occupants	02	—	—
V310 — Other Vehicle Traveling Speed	089 kph	—	—

V311 — Highest Police Injury Severity	2	B - Non-Incapacitating Injury	<a href="#">more</a>
V312 — Other Vehicle Type	28	Intermediate 105-109.9 in. wb.	<a href="#">more</a>
V313 — Other Vehicle Wheelbase (cm)	277 cm	—	—
V314 — Average Track Width	157 cm	—	—
V315 — Overall Length	495 cm	—	—
V316 — Overall Width (OAW)	185 cm	—	—
V317 — Front Overhang (FOH)	106 cm	—	—
V318 — Rear Overhang (ROH)	112 cm	—	—
V319 — Undeformed End Width (UEW)	146 cm	—	—
V320 — Engine Displacement	3.1 l	—	—
V321 — Engine: Number of Cylinders	06	—	—
V322 — Direct Damage Length (DDL)	048 cm	—	—
V323 — Front-End Overlap % (FEO)	33	—	—
V324 — Vehicle Overlap % (VOL)	36	—	—

## Case Vehicle General



[Click for case vehicle figure](#)

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1HGCG1648WA0	—	—
V402 — Manufacturer/Body Code	18228	—	—
V403 — Vehicle Manufacturer	182	Honda/America	<a href="#">more</a>
V404 — Vehicle Body Code	28	—	—
V405 — Make/Model Code	2311	Accord	<a href="#">more</a>
V406 — Model Year	1998	—	—
V407 — Vehicle Mass	001355 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	03	—	—
V410 — Traveling Speed	995	Just starting up	<a href="#">more</a>
V411 — Body Type	14	4-door sedan	<a href="#">more</a>
V412 — Stolen Vehicle	8	Not currently collected	<a href="#">more</a>
V413 — Body Structure	2	Unitized	<a href="#">more</a>
V414 — Transmission Type	1	Automatic	<a href="#">more</a>
	2		

V415 — Transmission Lever Location		Console	<a href="#">more</a>
V416 — Steering	1	Power	<a href="#">more</a>
V417 — Brakes	1	Power	<a href="#">more</a>
V418 — Brake Type	2	Disc - front wheels	<a href="#">more</a>
V419 — Brake Anti-lock Device	1	Two-wheel	<a href="#">more</a>
V420 — Air Conditioning in Vehicle	8	Not currently collected	<a href="#">more</a>
V421 — Drive Type	2	Front wheel	<a href="#">more</a>
V422 — Dual Rear Wheels	0	No	<a href="#">more</a>
V423 — Original Restraint System Type	3	Airbag	<a href="#">more</a>
V424 — Equipped With Roll Bar	0	No	<a href="#">more</a>
V425 — Roof Type	1	Solid	<a href="#">more</a>
V426 — Wheelbase	272 cm	—	—
V427 — Anti-lacerative Glass	0	None	<a href="#">more</a>
V428 — Average Track Width	154 cm	—	—
V429 — Overall Length	482 cm	—	—
V430 — Overall Width (OAW)	179 cm	—	—
V431 — Front Overhang	100 cm	—	—
V432 — Rear Overhang	110 cm	—	—
V433 — Undeformed End Width (UEW)	162 cm	—	—
V434 — Engine Displacement	3.0 l	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	043 cm	—	—
V437 — Front End Overlap % (FEO)	27	—	—
V438 — Vehicle Overlap % (VOL)	29	—	—

## Case Vehicle Damage Description

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	048 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>

V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	<a href="#">more</a>
V507 — Are Events In Chronological Order	1	Yes	<a href="#">more</a>
V508 — Event 1 Impact Location	1	On Roadway	<a href="#">more</a>
V509 — Event 1 Impact Configuration	11	FRONT of case veh - FRONT of contacted Vehicle	<a href="#">more</a>
V510 — Event 1 Object/Vehicle Contacted	28	Intermediate 105-109.9 in. wb.	<a href="#">more</a>
V511 — Event 2 Impact Location	8	No 2nd event	<a href="#">more</a>
V512 — Event 2 Impact Configuration	88	No 2nd event	<a href="#">more</a>
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V514 — Event 3 Impact Location	8	No 3rd event	<a href="#">more</a>
V515 — Event 3 Impact Configuration	88	No 3rd event	<a href="#">more</a>
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V517 — Event 4 Impact Location	8	No 4th event	<a href="#">more</a>
V518 — Event 4 Impact Configuration	88	No 4th event	<a href="#">more</a>
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V520 — Event 5 Impact Location	8	No 5th event	<a href="#">more</a>
V521 — Event 5 Impact Configuration	88	No 5th event	<a href="#">more</a>
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V523 — Event 6 Impact Location	8	No 6th event	<a href="#">more</a>
V524 — Event 6 Impact Configuration	88	No 6th event	<a href="#">more</a>
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V526 — Event 7 Impact On Road	8	No 7th event	<a href="#">more</a>
V527 — Event 7 Impact Configuration	88	No 7th event	<a href="#">more</a>
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	<a href="#">more</a>
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	<a href="#">more</a>

V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	<a href="#">more</a>
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	<a href="#">more</a>
V532 — Primary CDC Case Vehicle -crush	048	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	<a href="#">more</a>
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	<a href="#">more</a>
V535 — Primary CDC Case Vehicle letter 2 #1	18	R - Right (Front or Rear)	<a href="#">more</a>
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V538 — Primary CDC Case Vehicle Extent #1	02	Extent 2	<a href="#">more</a>
V539 — Primary CDC Case Vehicle -CDC #1	12FREW2	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	046	—	—
V548 — Primary CDC Contacted Vehicle - Estimated By	5	Other computer program	<a href="#">more</a>
V549 — Primary CDC Contacted Vehicle -crush	046	—	—
V550 — Primary CDC Contacted Vehicle -clock #1	12	12 o'clock	<a href="#">more</a>
V551 — Primary CDC Contacted Vehicle letter 1 #1	06	F - Front	<a href="#">more</a>
V552 — Primary CDC Contacted	18	R - Right (Front or Rear)	<a href="#">more</a>

Vehicle letter 2 #1			
V553 — Primary CDC Contacted Vehicle letter 3 #1	05	E - Everything below belt line	<a href="#">more</a>
V554 — Primary CDC Contacted Vehicle letter 4 #1	23	W - Wide impact area	<a href="#">more</a>
V555 — Primary CDC Contacted Vehicle Extent #1	02	Extent 2	<a href="#">more</a>
V556 — Primary CDC Contacted Vehicle -CDC #1	12FREW2	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	<a href="#">more</a>
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	<a href="#">more</a>
V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—



V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	<a href="#">more</a>
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	<a href="#">more</a>
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	<a href="#">more</a>
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	<a href="#">more</a>
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	<a href="#">more</a>
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	<a href="#">more</a>
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	<a href="#">more</a>
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	<a href="#">more</a>
V598 — Secondary CDC Contacted	9800000	—	—

Vehicle -CDC #2			
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## Crash Severity

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	032 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-032 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0006 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0107 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V608 — Primary Contacted	031 kph	—	—

Vehicle Reconstructed Total Delta-V			
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	-030 kph	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	-005 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0041 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	<a href="#">more</a>
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	8888	—	—
V616 — Secondary Case Vehicle	8888	—	—

Reconstructed Crush Energy			
V617 — Secondary Case Vehicle Reconstruction Note	88	—	—
V618 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	<a href="#">more</a>
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	<a href="#">more</a>
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta- V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	032 kph	—	—

V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-032 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0006 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0107 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	<a href="#">more</a>
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	<a href="#">more</a>
V630 — Primary Contacted Vehicle Reconstruction Total EBS	031 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-030 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	-005 kph	—	—
V633 — Primary Contacted	0041 kJ		

Vehicle Reconstruction Crush Energy		—	—
V634 — Case Vehicle Secondary Impact Number	8	Not applicable	<a href="#">more</a>
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	88	—	—
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	<a href="#">more</a>
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	<a href="#">more</a>
V642 — Secondary	8888		

Contacted Vehicle Reconstruction Longitudinal EBS		—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	<a href="#">more</a>
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	043 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	048 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	109 cm	—	—
V650 — Case Vehicle Impact 1 C1	000 cm	No Crush	<a href="#">more</a>
V651 — Case Vehicle Impact 1 C2	014 cm	—	—
V652 — Case Vehicle	032 cm	—	—

Impact 1 C3			
V653 — Case Vehicle Impact 1 C4	048 cm	—	—
V654 — Case Vehicle Impact 1 C5	035 cm	—	—
V655 — Case Vehicle Impact 1 C6	025 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0060 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	8	Not applicable	<a href="#">more</a>
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V660 — Case Vehicle Impact 2 Max Crush	998	Not applicable	<a href="#">more</a>
V661 — Case Vehicle Impact 2 Field-L	998	Not applicable	<a href="#">more</a>
V662 — Case Vehicle Impact 2 C1	998	Not applicable	<a href="#">more</a>
V663 — Case Vehicle Impact 2 C2	998	Not applicable	<a href="#">more</a>
V664 — Case Vehicle Impact 2 C3	998	Not applicable	<a href="#">more</a>
V665 — Case Vehicle	998	Not applicable	<a href="#">more</a>



Impact 2 C4			
V666 — Case Vehicle Impact 2 C5	998	Not applicable	<a href="#">more</a>
V667 — Case Vehicle Impact 2 C6	998	Not applicable	<a href="#">more</a>
V668 — Case Vehicle Impact 2 +/- D	9998	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	1	Bumper	<a href="#">more</a>
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	048 cm	—	—
V672 — Other Vehicle Impact 1 Max Crush	046 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	128 cm	—	—
V674 — Other Vehicle Impact 1 C1	000 cm	No Crush	<a href="#">more</a>
V675 — Other Vehicle Impact 1 C2	001 cm	—	—
V676 — Other Vehicle Impact 1 C3	008 cm	—	—
V677 — Other Vehicle Impact 1 C4	012 cm	—	—
V678 — Other Vehicle	022 cm	—	—

Impact 1 C5			
V679 — Other Vehicle Impact 1 C6	046 cm	—	—
V680 — Other Vehicle Impact 1 +/- D	0047 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	<a href="#">more</a>
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	<a href="#">more</a>
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	<a href="#">more</a>
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	<a href="#">more</a>
V686 — Other Vehicle Impact 2 C1	998	Not applicable	<a href="#">more</a>
V687 — Other Vehicle Impact 2 C2	998	Not applicable	<a href="#">more</a>
V688 — Other Vehicle Impact 2 C3	998	Not applicable	<a href="#">more</a>
V689 — Other Vehicle Impact 2 C4	998	Not applicable	<a href="#">more</a>
V690 — Other Vehicle Impact 2 C5	998	Not applicable	<a href="#">more</a>
V691 — Other Vehicle	998	Not applicable	<a href="#">more</a>

Impact 2 C6			
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

## Case Vehicle Tires & Rims

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	0	No	<a href="#">more</a>
V702 — Right Front Wheel Damaged	1	Yes	<a href="#">more</a>
V703 — Right Rear Wheel Damaged	0	No	<a href="#">more</a>
V704 — Left Rear Wheel Damaged	0	No	<a href="#">more</a>
V705 — Left Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V706 — Right Front Tire Tread Type	4	All Weather	<a href="#">more</a>
V707 — Right Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V708 — Left Rear Tire Tread Type	4	All Weather	<a href="#">more</a>
V709 — Left Front Carcass Construction	3	Radial	<a href="#">more</a>
V710 — Right Front Carcass Construction	3	Radial	<a href="#">more</a>
V711 — Right Rear Carcass Construction	3	Radial	<a href="#">more</a>
V712 — Left Rear Carcass Construction	3	Radial	<a href="#">more</a>
V717 — Left Front Tire Size	P20565R15	—	—
V718 — Right Front Tire Size	P20565R15	—	—
V719 — Right Rear Tire Size	P20565R15	—	—
V720 — Left Rear Tire Size	P20565R15	—	—

## Case Vehicle Fuel, Tank, Fire

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	<a href="#">more</a>



V802 — Main Tank Location	122	Within frame/centered laterally - within vertically	<a href="#">more</a>
V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	<a href="#">more</a>
V804 — Main Tank Material	9	Unknown	<a href="#">more</a>
V805 — Aux Tank Type	8	Not applicable (not equipped)	<a href="#">more</a>
V806 — Aux Tank Location	888	Not applicable (not equipped)	<a href="#">more</a>
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	<a href="#">more</a>
V808 — Aux Tank Material	8	Not applicable	<a href="#">more</a>
V901 — Fuel Leakage From Crash	0	No	<a href="#">more</a>
V1001 — Fire In Or On Case Vehicle	0	No	<a href="#">more</a>

## Case Vehicle Exterior

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	<a href="#">more</a>
V1102 — Hood Latch Damaged	1	Yes	<a href="#">more</a>
V1103 — Hood Latch Jammed	1	Yes	<a href="#">more</a>
V1104 — Left Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1105 — Left Hood Hinge Separated	0	No	<a href="#">more</a>
V1106 — Right Hood Hinge Damaged	1	Yes	<a href="#">more</a>
V1107 — Right Hood Hinge Separated	0	No	<a href="#">more</a>
V1108 — Hood Remained On Vehicle	1	Yes	<a href="#">more</a>
V1109 — Rear Hood Edge Elevated	1	Yes	<a href="#">more</a>
V1110 — Edge Contacted Windshield	0	No	<a href="#">more</a>
V1111 — Edge Penetrated Windshield	8	Not applicable	<a href="#">more</a>
V1112 — Hood Latch Location	1	Front of Vehicle	<a href="#">more</a>
V1113 — Eng/Transmissn Mount Separation	0	No	<a href="#">more</a>
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	<a href="#">more</a>
V1115 — Steerng Column Coupling Damaged	9	Unknown	<a href="#">more</a>
V1116 — Steerng Column Coupling Separated	9	Unknown	<a href="#">more</a>
V1117 — Eng Comp Telescopng Unit	88	Not collected	<a href="#">more</a>
V1118 — Comp Orig/Telescopd Diff	888	Not collected	<a href="#">more</a>

V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1120 — Upper Left A-pillar Separation	0	No	<a href="#">more</a>
V1121 — Lower Left A-pillar Separation	0	No	<a href="#">more</a>
V1122 — Upper Left B-pillar Separation	0	No	<a href="#">more</a>
V1123 — Lower Left B-pillar Separation	0	No	<a href="#">more</a>
V1124 — Upper Left C-pillar Separation	0	No	<a href="#">more</a>
V1125 — Lower Left C-pillar Separation	0	No	<a href="#">more</a>
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1128 — Left Front Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1129 — Left Rear Door Opening Cause	0	Door did not open	<a href="#">more</a>
V1130 — Left Front Door Jammed Closed	0	No	<a href="#">more</a>
V1131 — Left Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1132 — Rear Door Type	0	No door (includes pickups)	<a href="#">more</a>
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	<a href="#">more</a>
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	<a href="#">more</a>
V1135 — Luggage Partition Damagd	0	No	<a href="#">more</a>
V1136 — Spare Tire Status	8	Not collected	<a href="#">more</a>
V1137 — Trailer Hitch Type	0	No hitch	<a href="#">more</a>
V1138 — Trailer Type	0	No trailer	<a href="#">more</a>
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	<a href="#">more</a>
V1140 — Upper Right A-pillar Separation	0	No	<a href="#">more</a>
V1141 — Lower Right A-pillar Separation	0	No	<a href="#">more</a>
V1142 — Upper Right B-pillar Separation	0	No	<a href="#">more</a>
V1143 — Lower Right B-pillar	0	No	<a href="#">more</a>

Separation			
V1144 — Upper Right C-pillar Separation	0	No	<a href="#">more</a>
V1145 — Lower Right C-pillar Separation	0	No	<a href="#">more</a>
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	<a href="#">more</a>
V1148 — Right Front Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1149 — Right Rear Door Opening Cause	00	Door did not open	<a href="#">more</a>
V1150 — Right Front Door Jammed Closed	0	No	<a href="#">more</a>
V1151 — Right Rear Door Jammed Closed	0	No	<a href="#">more</a>
V1152 — Van Rear Door Type	8	Not applicable (not a van)	<a href="#">more</a>
V1153 — Windshield Cracked	 <a href="#">Click for windshield damage figure</a>	Yes	<a href="#">more</a>
V1154 — Windshield Broken	0	No	<a href="#">more</a>
V1155 — Windshield Cracked or Broken by Occupant	0	No	<a href="#">more</a>
V1156 — Bond Separation Extent	0	None	<a href="#">more</a>
V1157 — Windshield Code	 <a href="#">Click for windshield code figure</a>	—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	<a href="#">more</a>

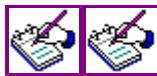
### Case Vehicle Steering Column/Rim

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	<a href="#">more</a>

V1202 — Number of Steering Wheel Spokes	4	4 spokes	<a href="#">more</a>
V1203 — Steering Wheel Spoke Damage	0	None	<a href="#">more</a>
V1204 — Column Tilt Feature	1	Yes, equipped (position unknown)	<a href="#">more</a>
V1205 — Column Swing-away Feature	0	Not equipped	<a href="#">more</a>
V1206 — Column Telescoping Feature	0	Not equipped	<a href="#">more</a>
V1207 — Wheel Energy Absorb Device	8	Not collected	<a href="#">more</a>
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	<a href="#">more</a>
V1209 — Column Energy Absorb Device	88	Not collected	<a href="#">more</a>
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	<a href="#">more</a>
V1211 — Shear Capsule Separation	888	Not collected	<a href="#">more</a>
V1212 — Column Vertical Rotation	0	No apparent rotation	<a href="#">more</a>
V1213 — Column Lateral Rotation	0	No apparent rotation	<a href="#">more</a>
V1214 — Steering Wheel Hub Damage	0	None	<a href="#">more</a>

## Case Vehicle Intrusion



Click for intrusion figures

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	0	No	<a href="#">more</a>
V1302 — Was Intrusion Catastrophic	8	Not applicable	<a href="#">more</a>
V1303 — Intrusion Number 01	00	No Intrusion, None	<a href="#">more</a>
V1304 — Intrusion 01 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1305 — Intrusion 01 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1306 — Intrusion 01 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1308 — Intrusion 01 Max Intrusion	00 cm	0 cm or No Intrusion	<a href="#">more</a>

Y-axis			
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1313 — Intrusion 01 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1314 — Intrusion Number 02	00	No Intrusion, None	<a href="#">more</a>
V1315 — Intrusion 02 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1316 — Intrusion 02 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1317 — Intrusion 02 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1324 — Intrusion 02 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1325 — Intrusion Number 03	00	No Intrusion, None	<a href="#">more</a>
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>



V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1335 — Intrusion 03 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1336 — Intrusion Number 04	00	No Intrusion, None	<a href="#">more</a>
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1347 — Intrusion Number 05	00	No Intrusion, None	<a href="#">more</a>
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	<a href="#">more</a>

V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1358 — Intrusion Number 06	00	No Intrusion, None	<a href="#">more</a>
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1369 — Intrusion Number 07	00	No Intrusion, None	<a href="#">more</a>
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
	99	Contact, injury unknown or data	

V1379 — Intrusion 07 Injury Number		not collected	<a href="#">more</a>
V1380 — Intrusion Number 08	00	No Intrusion, None	<a href="#">more</a>
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1391 — Intrusion Number 09	00	No Intrusion, None	<a href="#">more</a>
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1402 — Intrusion Number 10	00	No Intrusion, None	<a href="#">more</a>

V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	<a href="#">more</a>
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	<a href="#">more</a>
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	<a href="#">more</a>
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	<a href="#">more</a>
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	<a href="#">more</a>
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	<a href="#">more</a>
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	<a href="#">more</a>
V1413 — Door Intrusion Number 01	88	Not Applicable	<a href="#">more</a>
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	<a href="#">more</a>
V1415 — Door Intrusion Number 02	88	Not Applicable	<a href="#">more</a>
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	<a href="#">more</a>
V1417 — Door Intrusion Number 03	88	Not Applicable	<a href="#">more</a>
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	<a href="#">more</a>
V1419 — Door Intrusion 01 Component	88	Not Applicable	<a href="#">more</a>
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1422 — Door Intrusion 02 Component	88	Not Applicable	<a href="#">more</a>
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1425 — Door Intrusion 03 Component	88	Not Applicable	<a href="#">more</a>
V1426 — Door Intrusion 03	8		

Component Damaged 1		Not Applicable	<a href="#">more</a>
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	<a href="#">more</a>
V1428 — Door Intrusion 04 Component	88	Not Applicable	<a href="#">more</a>
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	<a href="#">more</a>
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	<a href="#">more</a>

## Case Vehicle Airbag(s)



[Click for Driver airbag figure](#)



[Click for Passenger airbag figure](#)

[Back to Top](#)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	<a href="#">more</a>
V1502 — Driver Airbag Deployed	1	Yes	<a href="#">more</a>
V1503 — Driver Airbag Condition	0	No Damage	<a href="#">more</a>
V1504 — Passenger Airbag Equip	1	Yes	<a href="#">more</a>
V1505 — Passenger Airbag Deployed	1	Yes	<a href="#">more</a>
V1506 — Passenger Airbag Condition	0	No Damage	<a href="#">more</a>
V1507 — Steering Wheel Airbag Tether	1	Yes	<a href="#">more</a>
V1508 — Driver Airbag Marked By Contact	0	No	<a href="#">more</a>
V1509 — Passenger Airbag Tether	0	No	<a href="#">more</a>
V1510 — Passenger Airbag Marked By Contact	0	No	<a href="#">more</a>

## Case Vehicle Interior

[Back to Top](#)

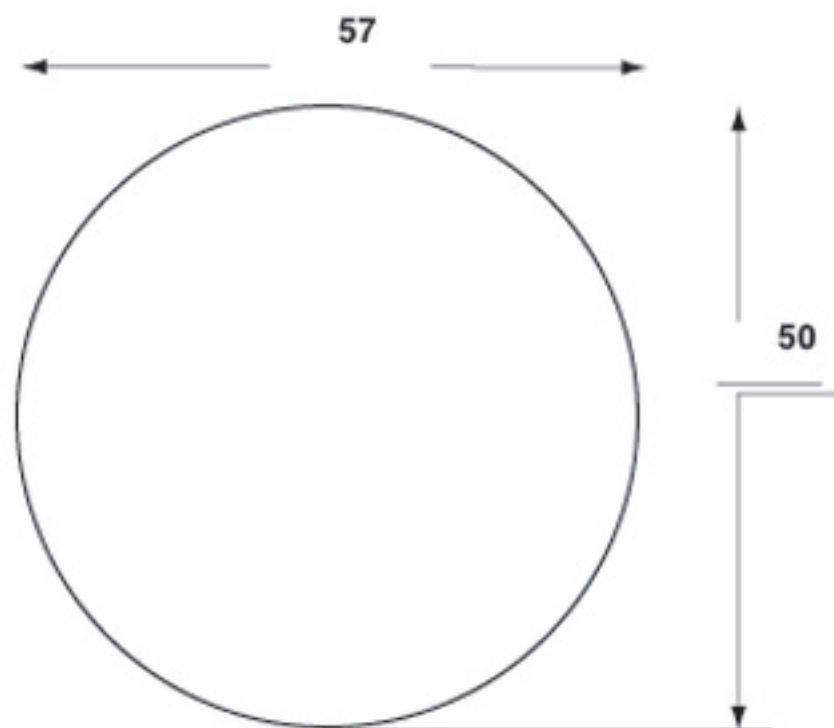
Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	<a href="#">more</a>
V1602 — Right Front Door Damaged	3	No, occupant contact	<a href="#">more</a>
V1603 — Left Front Hardware Damaged	0	No	<a href="#">more</a>

V1604 — Right Front Hardware Damaged	0	No	<a href="#">more</a>
V1605 — Left Front Armrest Damaged	0	No	<a href="#">more</a>
V1606 — Right Front Armrest Damaged	0	No	<a href="#">more</a>
V1607 — Left Front Glass Damaged	0	No	<a href="#">more</a>
V1608 — Right Front Glass Damaged	0	No	<a href="#">more</a>
V1609 — Left Rear Door Area Damaged	0	No	<a href="#">more</a>
V1610 — Right Rear Door Area Damaged	0	No	<a href="#">more</a>
V1611 — Left Rear Hardware Damaged	0	No	<a href="#">more</a>
V1612 — Right Rear Hardware Damaged	0	No	<a href="#">more</a>
V1613 — Left Rear Armrest Damaged	0	No	<a href="#">more</a>
V1614 — Right Rear Armrest Damaged	0	No	<a href="#">more</a>
V1615 — Left Rear Glass Damaged	1	Yes	<a href="#">more</a>
V1616 — Right Rear Glass Damaged	0	No	<a href="#">more</a>
V1617 — Left Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1618 — Right Roof Side Rail Damaged	0	No	<a href="#">more</a>
V1619 — Left B-pillar Damaged	0	No	<a href="#">more</a>
V1620 — Right B-pillar Damaged	0	No	<a href="#">more</a>
V1621 — Left C-pillar Damaged	0	No	<a href="#">more</a>
V1622 — Right C-pillar Damaged	0	No	<a href="#">more</a>
V1623 — Left D-pillar Damaged	8	Not applicable	<a href="#">more</a>
V1624 — Right D-pillar Damaged	8	Not applicable	<a href="#">more</a>
V1625 — Left Headlining Damaged	0	No	<a href="#">more</a>
V1626 — Right Headlining Damaged	0	No	<a href="#">more</a>
V1627 — Left Roof Structure Damaged	0	No	<a href="#">more</a>
V1628 — Right Roof Structure Damaged	0	No	<a href="#">more</a>
V1629 — Left T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>

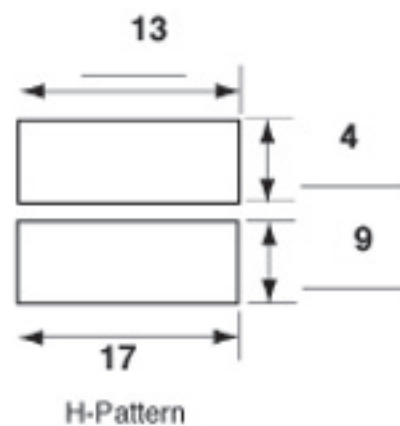
V1630 — Right T/Sun Roof Damaged	8	Not applicable	<a href="#">more</a>
V1631 — Other Left Side Item Damagd	8	Not applicable	<a href="#">more</a>
V1632 — Other Right Side Item Damagd	8	Not applicable	<a href="#">more</a>

## Driver Airbag

AIRBAG NUMBER ON DRIVER SIDE:



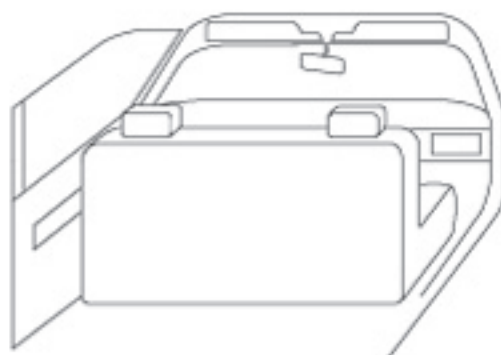
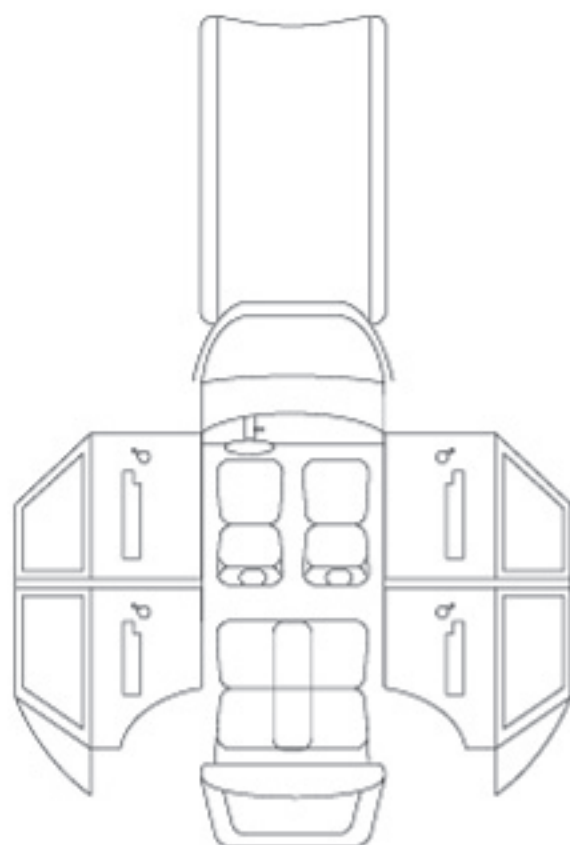
## Driver Airbag Doors



Vents: ☒ Y ☐ N  
if yes, how many: 2

Tethers: ☒ Y ☐ N  
if yes, how many: 2

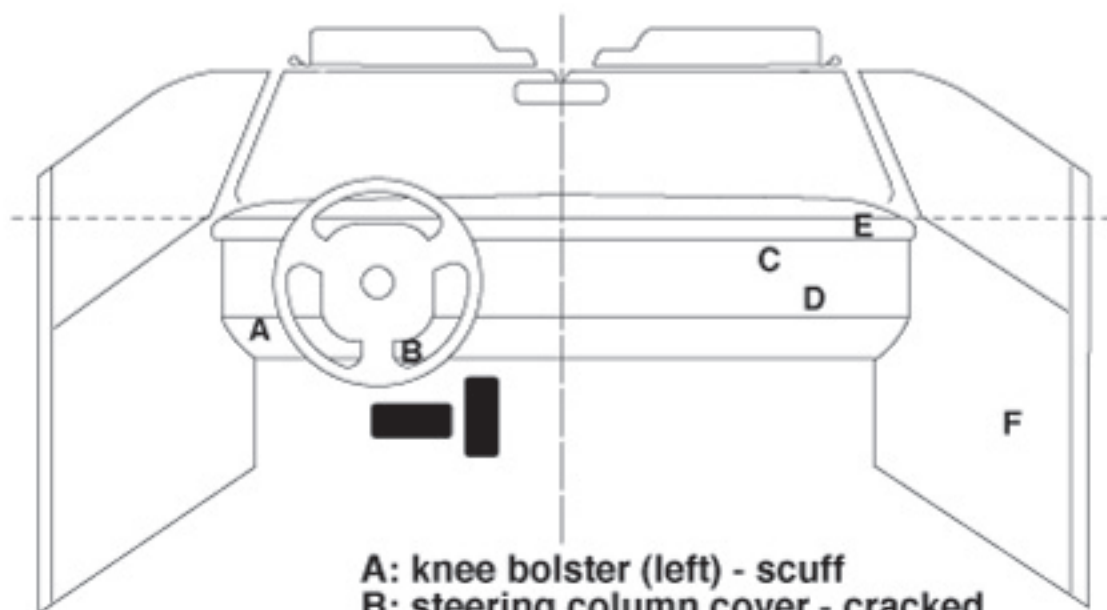




**DR belt evidence of use:**  
marks on D-ring and webbing up on B-pillar

**RF belt evidence of use:**  
marks on D-ring, webbing and continuous loop, up on B-pillar

**RR:** no visible evidence of use, but  
belt-induced injuries



- A:** knee bolster (left) - scuff
- B:** steering column cover - cracked
- C:** glove box - ajar
- D:** bolster below glove box - cracked
- E:** vent outlet - cracked
- F:** right-front door panel - scuff

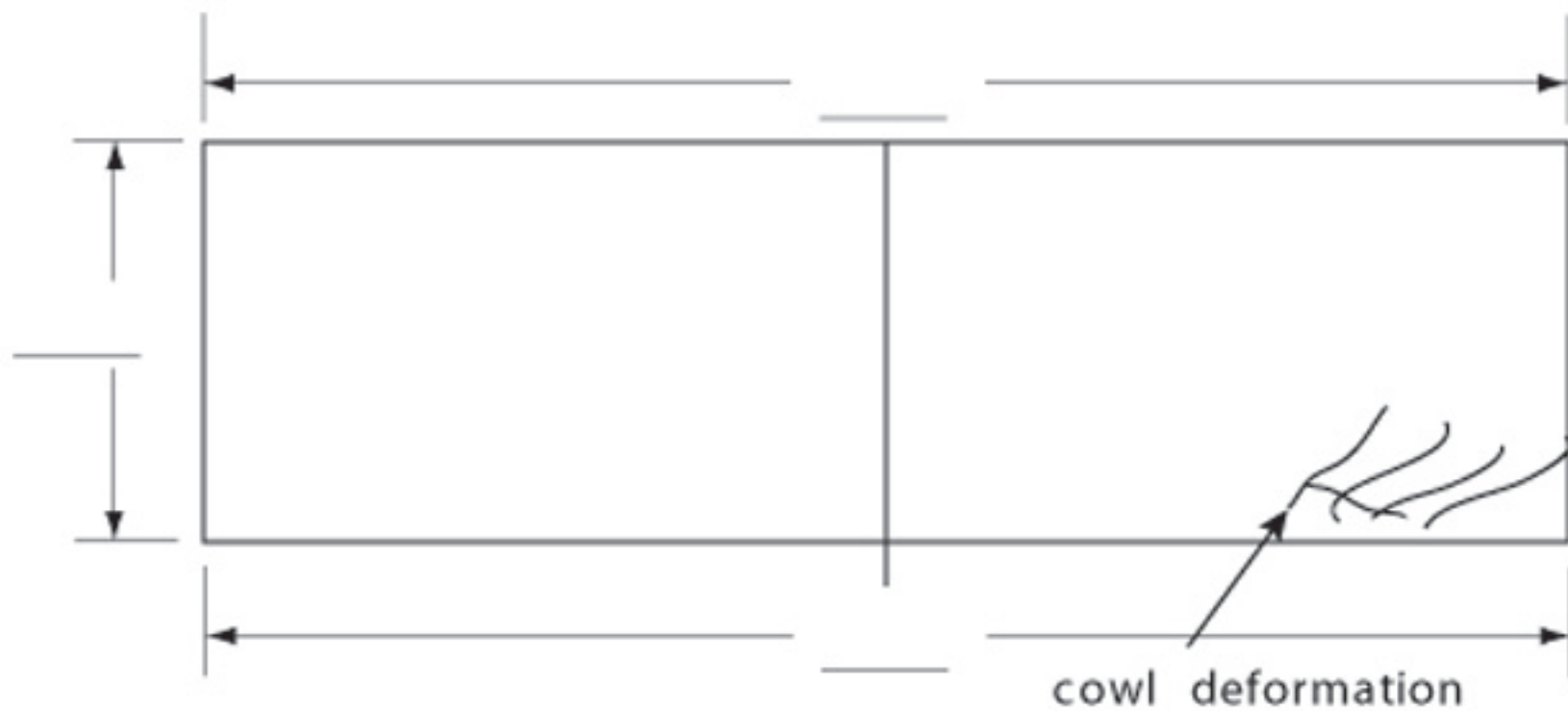
1 = Definitely 2 = Probably 3 = Possible

## INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	– Intruded Value	= Intrusion	
none			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	

## OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Knee bolster left side	1	Knee	Scuff	1
B	Steering column cover	1	Knee	Cracked	1
C	Glove box	2	Knee	Ajar	1
D	Knee bolster below glove box	2	Knee	Cracked	1
E	Vent outlet	2	Right hand	Cracked	1
F	Right-front door panel	2	Arm	Scuff	2
G					
H					




WINDSHIELD MARK ON CASE VEHICLE:

HONDA

 LAMISAFE

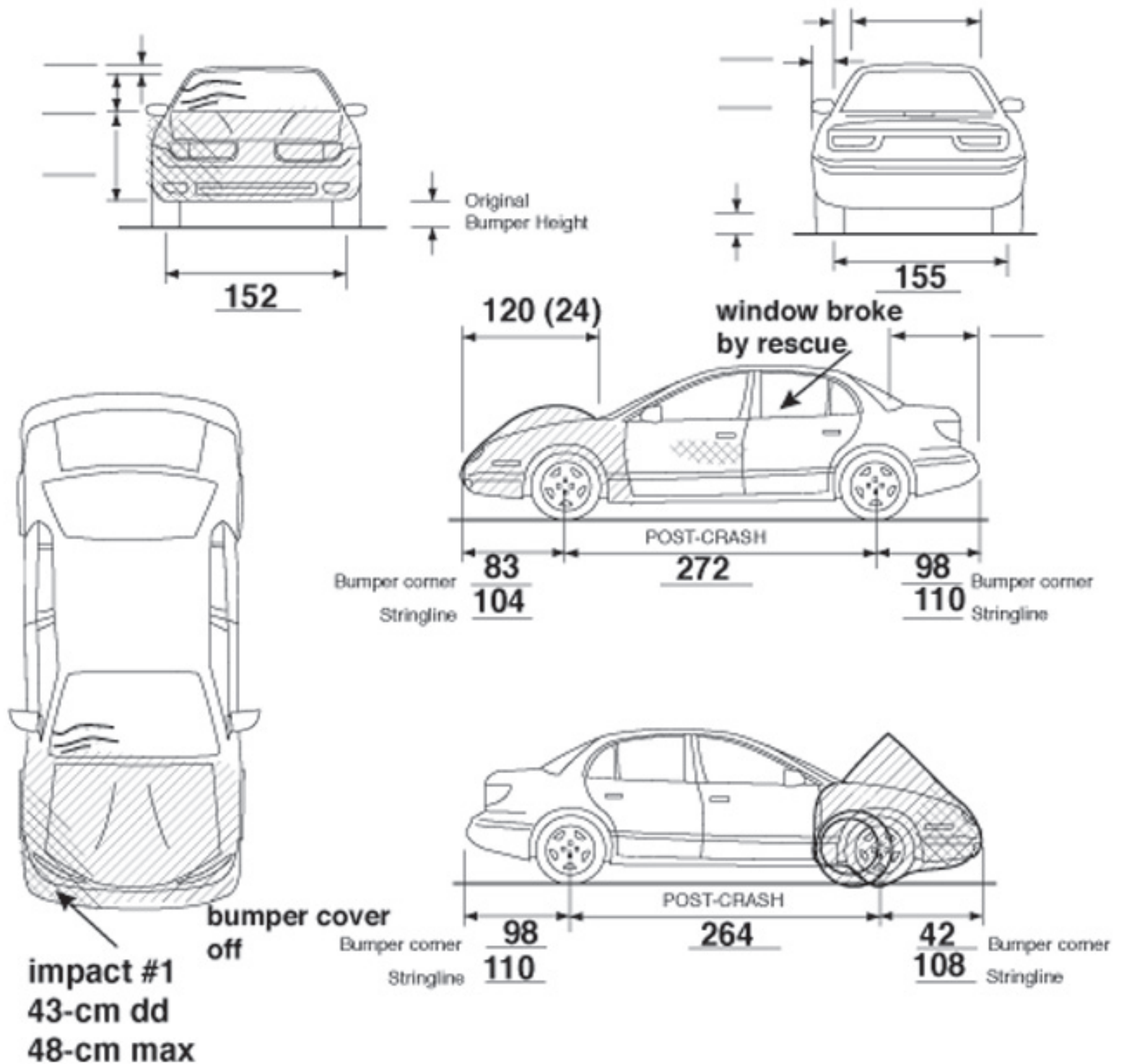
LAP TECH

 M334 AS1

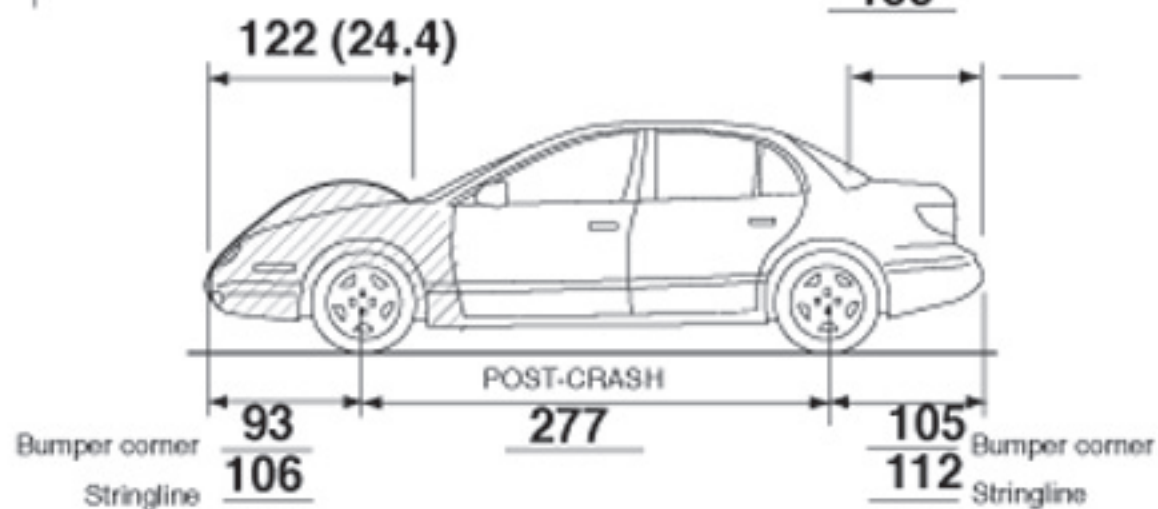
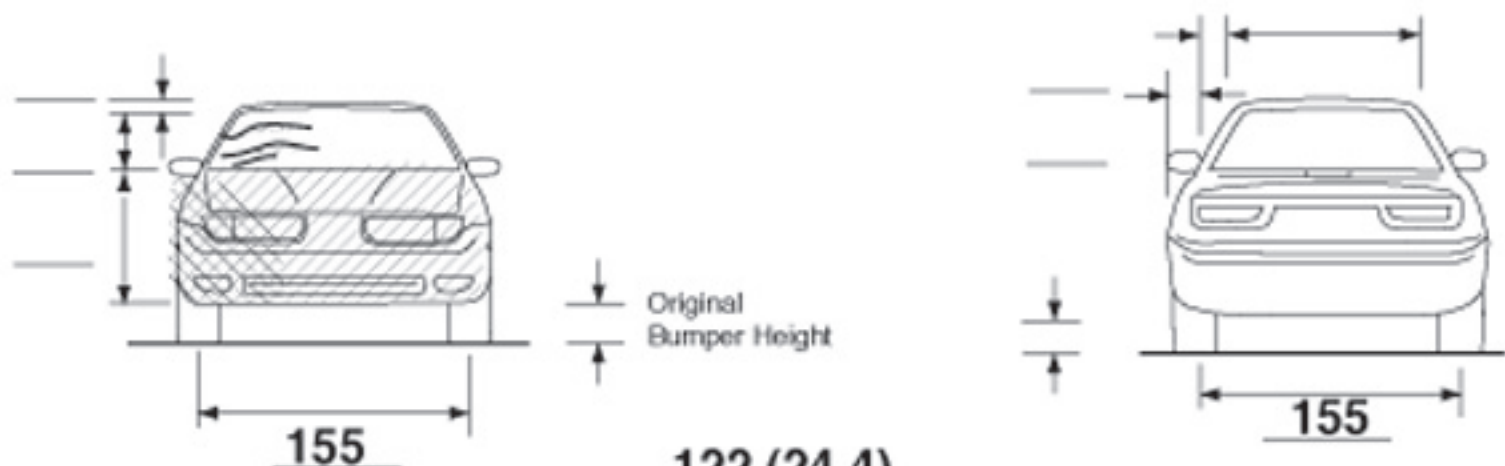
DOT 376

43R-008008

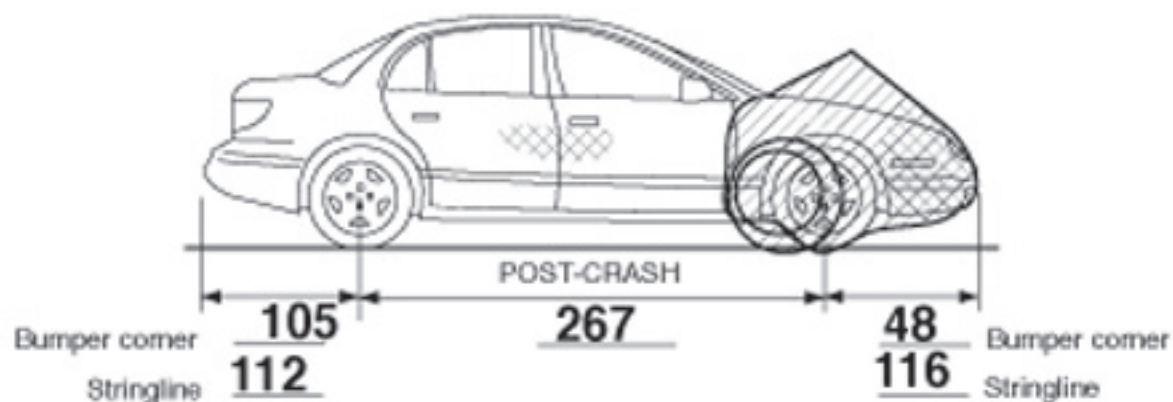
# MEASUREMENTS IN CENTIMETERS



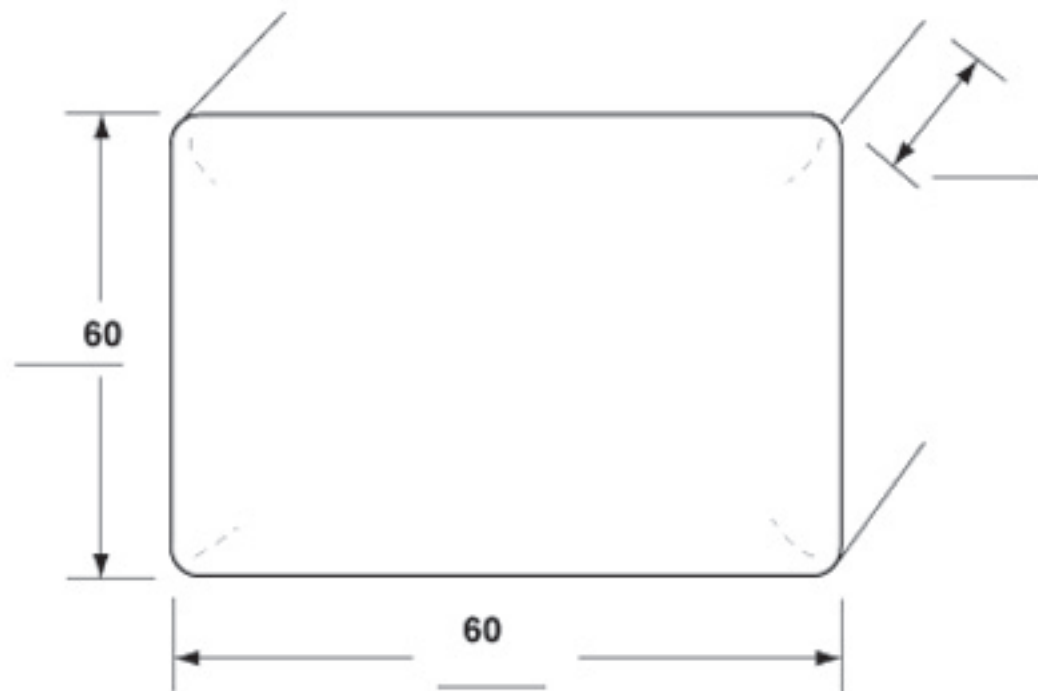
MEASUREMENTS IN CENTIMETERS



**impact #1**  
**48-cm dd**  
**46-cm max**



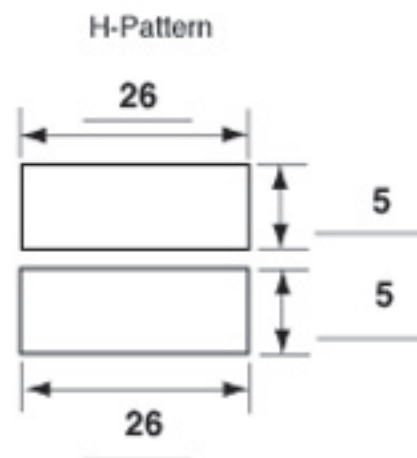
# Passenger Airbag



Vents: ☒ Y ☐ N  
 if yes, how many: 2

Tethers: Y ☒ N  
 if yes, how many: \_\_\_\_\_

# Passenger Airbag Doors









13479



RF











OR



































Conservation Employment  
Center Limited

700 West 10th St.  
PO Box 100  
Alameda, CA 94601  
Phone: (415) 754-4000

November 2011

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29







AIR BAG WARNING

Emergency Preparedness  
Calendar

Month	Day	Event
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31







Commercial Engineer  
Credit Union  
10000 Highway 101  
P.O. Box 10  
San Jose, CA 95128-0010  
Telephone: (408) 291-1010

NAME	LAST	FIRST	MIDDLE	INITIALS
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100



















AIR BAG WARNING



Conservation Biology  
Credit Unit  
101

































































HONDA  
CAMBODIA  
43 TECH  
2014  
DOT-378  
2014-2015













































































































